



**CEMBO .EU**  
COMBAT AND EVALUATION OF MIXED BIOFILMS

# Workshop "Conventional and alternative approaches combating antimicrobial resistance"

28<sup>th</sup> June – 1<sup>st</sup> July 2023, Štrbské Pleso



## The Final Program

Organized by:



COMENIUS  
UNIVERSITY  
BRATISLAVA



**Amsterdam UMC**  
University Medical Centers



In cooperation with:



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## **Local Organizing Committee:**

**President: Helena Bujdáková**

**Kristína van der Ploeg**

**Barbora Radochová**

**Larysa Bugyna**

**Jarmila Czucz Varga**

**Katarína Bilská**

**Samuel Kendra**

**Andrea Horníková**

## **International Scientific Advisory Board:**

**Renáta Karpíšková**

**Katarína Šoltys**

**Filip Růžička**

**Wednesday 28<sup>th</sup> June**

- 15:00 – 16:00**      **Registration**
- 15:30 – 16:00**      **Coffee/tea & snack**
- 16:00 – 16:10**      **Welcome and opening**
- 16:10 – 16:35**      **Invited lecture – Hana Drahovská**  
*Comparative genomics of potential therapeutic bacteriophages infecting enterobacteria*
- 16:35 – 18:20**      **Session 1**
- 16:35              **Alexandra Burdová**  
*Whole genome analysis of food related bacteria*
- 16:50              **Ali Sulafa Elnwrani Fakhreldin**  
*E. coli bacteriophages useful for therapy of urinary tract infections*
- 17:05              **Kristína Pápayová**  
*Characterization of proteins with SLT domains and their properties*
- 17:20              **Júlia Koreneková**  
*Antibiotic resistant coliform bacteria and Enterococci in flours and plant powders*
- 17:35              **Monika Krauhulcová**  
*A closer look on connection of antibiotic resistance bacteria in the food chain and the environment*
- 17:50              **Klára Cverenkárová**  
*Microplastics and antibiotic resistance*
- 18:05              **Ivana Stará**  
*Antimicrobial testing of potential materials in healthcare*
- 18:30 – 20:00**      **Dinner at the hotel**

**Thursday 29<sup>th</sup> June**

- 9:00 – 12:00**      **Social activities**
- 12:00 – 14:00**      **Lunch break (optional)**
- 14:00 – 16:00**      **Discussion in publishing possibilities**
- 16:00 – 16:30**      **Coffee & tea break**

<b>16:30 – 16:50</b>	<b>Invited lecture – Martijn Riool</b> <i>Novel antimicrobial coating on titanium with stable non-antibiotic quaternary ammonium compounds to prevent implant-associated infection</i>
<b>16:50 – 18:50</b>	<b>Session 2</b>
16:50	<b>Laure van Hofwegen</b> <i>The microbicidal activity of graphene quantum dots and a graphene quantum dot coating</i>
17:05	<b>Raphaëlle Youf</b> <i>Antimicrobial peptide-functionalized polymer brushes coated on titanium alloy surfaces: Evaluation against Staphylococcus aureus biofilms</i>
17:20	<b>Nikitha Vavilthota</b> <i>Identifying antimicrobial peptides with antimicrobial and wound healing properties for the treatment of chronic wounds</i>
17:35	<b>Ján Víglaš</b> <i>Natural peptides produced by Trichoderma spp. inhibit bacterial and yeast pathogens while not affecting Galleria mellonella larvae</i>
17:50	<b>Gizem Babuccu</b> <i>Development of diagnostic and antimicrobial triggered release systems for wound dressings</i>
18:05	<b>Atiff Muhammad</b> <i>Intelligent wound dressing for autonomous detection and treatment of bacterial infections</i>
18:20	<b>Deeksha Rajkumar</b> <i>Novel Bioactive Glass S53P4 cream as a bactericidal coating to prevent Biomaterial-Associated infections</i>
18:35	<b>Zuzana Neščáková</b> <i>Evaluation of antimicrobial properties of bioactive glass</i>
<b>18:50 – 20:00</b>	<b>Dinner at the hotel</b>
	<b>Friday 30<sup>th</sup> June</b>
<b>9.00 – 9.15</b>	<b>Invited lecture - Petra Olejníková</b> <i>The possibilities of enhancing the antifungals activity of common used antifungals</i>
<b>9:15 – 10:30</b>	<b>Session 3</b>

9:15	<b>Ivana Segéňová</b> <i>Different mutations in the cyp51 gene – different susceptibility profiles of A. fumigatus strains?</i>
9:30	<b>Karin Herchlová</b> <i>The contribution of oxidative stress to the antifungal effect of azole compounds in Neurospora crassa</i>
9:45	<b>Barbora Radochová</b> <i>Effect of QS molecule farnesol on mixed biofilms formed by Candida albicans and Staphylococcus aureus</i>
10:00	<b>Katarína Hollá</b> <i>Green tea catechins and their antifungal potential</i>
10:15	<b>Daniel Eliaš</b> <i>Catechins as the novel strategy in enhancement of antifungal activity of azoles</i>
<b>10:30 – 11:00</b>	<b>Coffee &amp; tea break</b>
<b>11:00 – 14:00</b>	<b>Social activities &amp; lunch break (optional)</b>
<b>14:00 – 14:20</b>	<b>Helena Bujdáková</b> <i>Antimicrobial photodynamic inactivation – a promising approach combating infectious pathogens</i>
<b>14:20 – 15:50</b>	<b>Session 4</b>
14:20	<b>Kawaljit Kaur</b> <i>Antimicrobial photodynamic therapy with Ru(II)-polypyridyl nanocarriers for treating Cystic Fibrosis lung infections</i>
14:35	<b>Nicola Cusick</b> <i>Encapsulation of photosensitizers in bacteria-responsive nanocarriers for on-demand treatment of wound infections</i>
14:50	<b>Jarmila Czucz Varga</b> <i>Photodynamic inactivation against single- and dual-species biofilms: efficacy evaluation with methylene blue</i>
15:05	<b>Samuel Kendra</b> <i>In vitro and in vivo photodynamic inactivation of Candida albicans-Staphylococcus aureus mixed biofilm</i>
15:20	<b>Jozefína Theissová</b> <i>Characterization of virulence factors of Staphylococcus aureus strains after photodynamic inactivation</i>

15:35	<b>Katarína Bilská</b> <i>The effectiveness of photoactive material on MRSA is not affected by the efflux pumps</i>
15:50 – 16:20	<b>Coffee &amp; tea break</b>
16:20 – 18:30	<b>Zuzana Reptová</b> <i>My project in Horizon Europe: a look from the evaluator's perspective</i>
18:30 – 20:00	<b>Dinner at the hotel</b>
	<b>Saturday 1<sup>st</sup> July</b>
9:00 – 10:30	<b>Juraj Bilský</b> <i>The influence of human factors on projects – interactive activities (SK/EN)</i>
10:30 – 11:00	<b>Closing notes &amp; snack</b>

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